DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	))))))))))))))	LLL LLL LLL
DDD DDD		LLL
DDD DDD		
DDD DDD		
000 000	555	
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DDD DDD	ČČČ	ΙΙΙ
DDD DDD	CCC	ΙΙΙ
DDD DDD	ČČČ	LLL
DDD DDD	CCC	ΓĽĻ
DDD DDD	000	LLL
DDD DDD		
DDD DDD DDD		
DDD DDD	000	
DDDDDDDDDDD	222222222	iiillellellellel
DDDDDDDDDDD	222222222	
DDDDDDDDDDD	000000000000	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	••••
		\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$
[[   L   L   L   L   L		SS SS SS SSSSSS SSSSSS SSSSSS SSSSSS
	ii II IIIII IIIII	\$\$ \$\$ \$\$ \$\$ \$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$

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IF Table of contents

(3) 50

IF COMMAND

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15-SEP-1984 23:52:25 VAX/VMS Macro V04-00 Page 1 4-SEP-1984 23:40:57 DISK\$VMSMASTER:[DCL.SRC]IF.MAR;1 (1)

.TITLE IF - IF COMMAND EXECUTION .IDEN: 'V04-000'

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27 IF COMMAND EXECUTION

28 D. N. CUTLER 9-MAY-77

30 31 MODIFIED BY:
32 V03-002 PCG0003 Peter George 27-May-1983

34 Add NOTHEN status.

35 V03-001 PCG0002 Peter George 24-Feb-1983

36 Remove SETBIT WRK\_V\_NOSTAT.

- if COMMAND EXECUTION 15-SEP-1984 23:52:25 VAX/VMS Macro V04-00 Page 2 4-SEP-1984 23:40:57 DISK\$VMSMASTER:[DCL.SRC]IF.MAR;1 (2) 0000 40; 0000 41: MACRO LIBRARY CALLS

```
E 11
                                                                                               15-SEP-1984 23:52:25 VAX/VMS Macro V04-00 Page 3 4-SEP-1984 23:40:57 DISK$VMSMASTER:[DCL.SRC]IF.MAR;1 (3)
                                         - IF COMMAND EXECUTION
V04-000
                                         IF COMMAND
                                                                         .SBTTL IF COMMAND
                                                          51 :+
52 : DCL$IF - IF COMMAND
                                                ŎŎŎŎ
                                                0000
                                                0000
                                                0000
                                                                 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE IF DCLS COMMAND.
                                                0000
                                                ŎŎŎŎ
                                                          56
57
                                                                INPUTS:
                                                0000
                                                0000
                                                          58
                                                                         R10 = BASE ADDRESS OF COMMAND WORK AREA.
R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                                          59
                                                0000
                                                0000
                                                          60
                                                ŎŎŎŎ
                                                                 OUTPUTS:
                                                          61
                                                          62
                                                0000
                                                ŎŎŎŎ
                                                                         THE IF CLAUSE IS EVALUATED AND IF THE RESULTANT VALUE IS TRUE, THE THEN CLAUSE IS EXECUTED BY RETURNING CONTROL TO THE COMMAND EXECUTION
                                                0000
                                                          64
                                                0000
                                                                         ENTRY POINT. OTHERWISE CONTROL IS RETURNED VIA THE RETURN ADDRESS.
                                                          65
                                                0000
                                                          66
                                                0000
                                                                         RO LOW BIT CLEAR INDICATES EXPRESSION EVALUATION FAILURE.
                                                0000
                                                          68
                                                                                   RO = DCL$_COMPLX - EXPRESSION TOO COMPLEX.
RO = DCL$_EXPSYN - EXPRESSION SYNTAX ERROR.
RO = DCL$_IVCHAR - INVALID CHARACTER IN NUMERIC STRING.
RO = DCL$_IVOPER - INVALID EXPRESSION OPERATOR.
                                                0000
                                                          69
                                                0000
                                                          70
                                                0000
                                                          71
                                                          72
73
                                                ŎŎŎŎ
                                                0000
                                                                                   RO = DCL$ UNDSYM - UNDEFINED SYMBOL.
                                                0000
                                                0000
                                                          75
                                                                                   RO = DCLS_NOTHEN - THEN KEYWORD NOT IN EXPECTED LOCATION
                                                0000
                                                          76
                                                          77 :
                                                0000
                                                                         RO LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
                                                          78
                                                0000
                                                          79
                                                0000
                                                                                   RO = DCL$_NORMAL - NORMAL COMPLETION.
                                                0000
                                                          80 :-
                                                0000
                                                0000
                                                              DCL$IF::
                                                                                                                             : IF COMMAND
                                                                                                                             EVALUATE ARITHMETIC EXPRESSION
                                                0000
                                                          83
                                                                         BSBW
                                 FFFD'
                                                                                   DCL$BINEXPR
                                          £9
                                                0003
                                                          84
                                                                                                                             : IF LBC EXPRESSION EVALUATION ERROR
                                10 50
                                                                         BLBC
                                                                                   RO,20$
                                                                                                                             GET POINTER TO "THEN" STRING "THEN" KEYWORD?
                                                          85
86
87
                                                0006
                                                                                   #4, WRK_L_EXPANDPTR(R10),R2
                       F486 CA
                                    04
                                                                         SUBL 3
                       4E454854 8F
                                                000C
                                                                                   #^A/THEN7_(R2)
                                          D1
                                                                         CMPL
                                                                                                                             NO, THEN ERROR
                                                0013
                                                                                   30$
                                           12
                                                                         BNEQ
                                          E9
                                                          88
                                                                                   R1,10$
                                03 51
                                                0015
                                                                                                                             : IF LBC FALSE RESULT
                                                                         BLBC
                                                0018
                                                0018
                                                          90
91
92
93
95
                                                              ; EXECUTE THEN CLAUSE OF IF COMMAND
                                                0018
                                                0018
                                                0018
                                 FFE5' 31
                                                0018
                                                                         BRW
                                                                                   DCLSCMDSTART
                                                001B
                                                          96
97
                                                001B
```

; BYPASS THEN CLAUSE OF IF COMMAND

STATUS NORMAL

RSB

; COMMAND SYNTAX ERROR

001B

001B

001B 001B

0022

0023

0023

0023

0023

98

99

102

103

104

105

106

100 105:

101 20\$:

CLIS NORMAL	( <del>3</del> )
PRC	

```
H 11
                                            - IF COMMAND EXECUTION
                                                                                                    15-SEP-1984 23:52:25 VAX/VMS Macro V04-00 4-SEP-1984 23:40:57 DISK$VMSMASTER:[DCL.S
Symbol table
                                                                                                                                  DISK$VMSMASTER:[DCL.SRC]IF.MAR:1 (3)
WRK_L_VERB
WRK_W_FLAGS
WRK_W_FLAGS2
WRK_W_IMGCHAN
                                              FFFFFBE
                                              FFFFFFÖ
                                              FFFFFFF2
                                              FFFFFFEE
URK U PMPTLEN
                                              FFFFF99E
                                                                     Psect synopsis!
PSECT name
                                            Allocation
                                                                        PSECT No.
                                                                                       Attributes
                                                                                                                                                        NOWRT NOVEC BYTE
    ABS .
                                            0000000
                                                                        00 (
                                                                                0.)
                                                                                       NOPIC
                                                                 0.)
                                                                                                  USR
                                                                                                                  ABS
                                                                                                                          LCL NOSHR NOEXE NORD
                                                                                                          CON
SABSS
                                                                 0.)
                                            FFFFFFC
                                                                        01
                                                                                       NOPIC
                                                                                                  USR
                                                                                                          CON
                                                                           (
                                                                                1.)
                                                                                                                  ABS
                                                                                                                          LCL NOSHR
                                                                                                                                                   RD
                                                                                                                                                           WRT NOVEC BYTE
                                                                                                                                           EXE
DCL$ZCODE
                                            0000002E
                                                                                2.)
                                                                                       NOPIC
                                                                                                  USR
                                                                                                          CON
                                                                                                                          LCL NOSHR
                                                                                                                                                   RD
                                                                                                                                                        NOWRT NOVEC BYTE
                                                                                                                                           EXE
                                                                Performance indicators !
Phase
                                   Page faults
                                                       CPU Time
                                                                            Elapsed Time
Initialization
                                             15
                                                       00:00:00.05
                                                                            00:00:01.00
                                                                            00:00:07.21
00:00:18.76
Command processing
                                            102
                                                       00:00:00.72
                                            170
                                                       00:00:04.89
Pass 1
                                                       00:00:00.50
Symbol table sort
                                                                            00:00:01.46
Pass 2
                                                       00:00:00.67
                                                                            00:00:02.97
Symbol table output
Psect synopsis output
                                                       00:00:00.10
                                                                            00:00:00.35
                                                       00:00:00.02
                                                                            00:00:00.02
                                                       00:00:00.00
Cross-reference output
                                                                            00:00:00.00
                                                       00:00:06.95
Assembler run totals
                                            326
                                                                            00:00:31.77
The working set limit was 1050 pages.
20448 bytes (40 pages) of virtual memory were used to buffer the intermediate code. There were 30 pages of symbol table space allocated to hold 394 non-local and 3 local symbols. 111 source lines were read in Pass 1, producing 13 object records in Pass 2. 26 pages of virtual memory were used to define 13 macros.
                                                               Macro library statistics !
Macro library name
                                                              Macros defined
 $255$DUA28:[SYSLIB]SYSBLDMLB.MLB;1
                                                                             0
S255$DUA28:[DCL.OBJ]DCL.MLB;1
S255$DUA28:[SYS.OBJ]LIB.MLB;1
S255$DUA28:[SYSLIB]STARLET.MLB;2
```

497 GETS were required to define 8 macros.

TOTALS (all libraries)

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: IF/OBJ=OBJ\$: IF MSRC\$: IF/UPDATE=(ENH\$: IF) + EXECML\$/LIB+LIB\$: DCL/LIB+SYS\$LIBRARY: SYSBLDMLB/LIB

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